

430507

A Preliminary Assessment
of
Conoco Chemical Company
Baltimore, Maryland

MD-109

Final Report
April 1985

Prepared By: Maryland Waste Management Administration
201 West Preston Street
Baltimore, Maryland

For: U.S. Environmental Protection Agency
Region III
841 Chestnut Building
Philadelphia, Pennsylvania 19107

Conoco Chemical Company
Baltimore, Maryland

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Summary and Recommendations

The Conoco Chemical Company has been at its present location about 100 years. The company has disposed of "sulfones" a manufacturing byproduct for the last 50 years, by using two containment pits on the property.

When Conoco applied for a hazardous waste storage facility permit for other nonrelated wastes, they were directed to remove the contents of the pit and fill in the excavation because the waste contained traces of benzene, toluene and xylene. These wastes were considered hazardous by the State of Maryland during most of 1980.

Levels of benzene ranged from 1 to 30 ppm; toluene ranged from 1 to 10 ppm; xylene ranged from 0 to 238 ppm. However, by present regulations, according to the facility permit writer, Lou Martino, this material would not be considered hazardous today.

About 29,000 tons of material was removed to the Solley Road Landfill in 1980. These pits were excavated one foot below the base of the pit.

Since these wastes have been removed and disposed at the Solley Road Landfill, then no further action is needed at this site.



**POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT**

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

MD

ORIGINAL
(Red)

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)

Conoco Chemical Company

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER

3441 Fairfield Road

03 CITY

Baltimore

04 STATE

05 ZIP CODE

MD

21226

06 COUNTY

Baltimore City

07 COUNTY CODE

08 CONG DIST

09 COORDINATES

LATITUDE

LONGITUDE

39 13 30

76 35 00

10 DIRECTIONS TO SITE (Starting from nearest public road)

From intersection of Patapsco and Fairfield, turn NE and proceed to plant

III. RESPONSIBLE PARTIES

01 OWNER (if owner)

E.I. DuPont

02 STREET, Business, mailing, residential

1007 Market Street

03 CITY

Wilmington

04 STATE

05 ZIP CODE

DE

19898

06 TELEPHONE NUMBER

()

07 OPERATOR (if owner and operator from owner)

Conoco Chemical Company

08 STREET, Business, mailing, residential

3441 Fairfield Road

09 CITY

Baltimore

10 STATE

11 ZIP CODE

MD

21226

12 TELEPHONE NUMBER

(301) 355-6200

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE☐ B. FEDERAL☐ C. STATE☐ D. COUNTY☐ E. MUNICIPAL☐ F. OTHER:

(Specify)

☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED:

MONTH DAY YEAR

☒ B. UNCONTROLLED WASTE SITE (RCRA 103) DATE RECEIVED:

6 / 9 / 81

☐ C. NONE**IV. CHARACTERIZATION OF POTENTIAL HAZARD**

01 SITE INSPECTION:

☒ YES

DATE

2 / 16 / 84

☐ NO

02, Check all that apply

☐ A. EPA☐ B. EPA CONTRACTOR☒ C. STATE☐ D. OTHER CONTRACTOR☐ E. LOCAL HEALTH OFFICIAL☐ F. OTHER:

(Specify)

CONTRACTOR NAME(S):

02 SITE STATUS (Check one)

☐ A. ACTIVE☒ B. INACTIVE☐ C. UNKNOWN

03 YEARS OF OPERATION

1930

1980

☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

None

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

None

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Media Information and Part 3 - Condition of Hazardous Containers and Inclosures)

☐ A. HIGH

(Inspection required promptly)

☐ B. MEDIUM

(Inspection required)

☐ C. LOW

(Inspection on site available basis)

☒ D. NONE

(No further action needed, complete current inspection form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT

Ross Oliver, Env. Dir.

02 OF (Agency/Organization)

Conoco Chemical Company

03 TELEPHONE NUMBER

(301) 355-6200

04 PERSON RESPONSIBLE FOR ASSESSMENT

Michael Broumberg

05 AGENCY

DHMH/OEP

06 ORGANIZATION

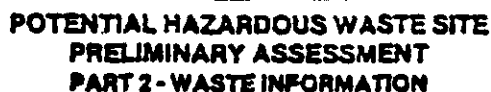
WMA

07 TELEPHONE NUMBER

'301' 383-6650

08 DATE

5/31/84



01 STATE	02 SITE NUMBER
MD	

01 PHYSICAL STATES (CHECK AS MANY APPLY)

- ☐ A. SOLID
☐ B. POWDER, FINES
☒ C. SLUDGE
☐ D. OTHER _____
- ☐ E. SLURRY
☐ F. LIQUID
☐ G. GAS
- 120000

OZ WASTE QUANTITY AT SITE

REMARKS ON THE STATE OF THE COUNTRY

TONS 29.000

CUBIC YARDS

NO. OF CASES

03 WASTE CHARACTERISTICS - Check all that apply

- | | | |
|-------------------|------------------|-----------------------|
| 1. A. TOXIC | 2. E. SOLUBLE | 3. I. HIGHLY VOLATILE |
| 2. B. CORROSIVE | 3. F. INFECTIOUS | 4. J. EXPLOSIVE |
| 3. C. RADIOACTIVE | 4. G. FLAMMABLE | 5. K. REACTIVE |
| 4. D. PERSISTENT | 5. H. IGNITABLE | 6. L. BIODEGRADABLE |
| | | 7. M. NOT APPLICABLE |

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	29,000	tons	
OLW	ONLY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for those frequently using CAS Numbers)

[illegible]

V. FEEDSTOCKS / See Appendix for CAS Numbers

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	Xylene	1330-20-7	FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VL SOURCES OF INFORMATION (Cite specific references, e.g., State Mag., Senate records, reports)

Ross Oliver, Conoco Chemical Company
Lou Martino, Waste Management Administration



**POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT**

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE: MD 02 SITE NUMBER: _____

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☒ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 100 04 NARRATIVE DESCRIPTION

Prior to excavation and removal of wastes, materials may have leached into groundwater

01 ☐ B. SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 100 04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 100 04 NARRATIVE DESCRIPTION

see above

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ F. CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☒ ALLEGED
03 AREA POTENTIALLY AFFECTED: 71 04 NARRATIVE DESCRIPTION
Acres

Material not buried

01 ☐ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 100 04 NARRATIVE DESCRIPTION

see above

01 ☐ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION



**POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS**

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
MD	

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (Specify nature of hazard)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES
(Specify nature of hazard)

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None

06 TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS N/A

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, company records, reports)

Lou Martino, Waste Management Administration
Ross Oliver, Conoco Chemical Company

FIELD TRIP SUMMARY REPORT

This summary should be prepared in conjunction with the Preliminary Assessment Form, (EPA Form T2070-2), so that a proper site rating can be assigned.

Name of Site Conoco Chemical Company

EPA Case Number _____

- I. If site is active, has owner/operator notified EPA in accordance with Section 3010 of RCRA. Yes _____ No _____
If Yes: a) Note EPA I.D. No. Site not active
b) Is the site a generator, storer, treater or disposer of hazardous waste? (CIRCLE ONE) - wastes other than materials reported under CERCLA
- II. If the answers submitted in Part VI (Hazard Description) of EPA Form T2070-2 or observations warrant a more thorough site investigation/sampling, please attach a sketch map showing those areas of concern. (i.e.: lagoons, leachate seeps, drum storage, monitoring wells, etc.).
- III. Please list site contacts and accompanying inspectors; include name, title and phone numbers. _____
Ross Oliver, Environmental Director, 301-355-6200
Michael Broumberg, Regional Inspector, 301-383-6650

- IV. Site observations: (attach a topo map).
- A. Population within 1000 ft. of the site is (CHECK ONE)
1. 0-10 people
 2. 10-100 people - small residential area in vicinity
 3. greater than 100 people
- B. List surrounding land use: (woodlot, agricultural, playground, industrial, etc.)
- North: Chevron
- South: Shell, Mobil, Patapsco WWTP
- East: Patapsco River
- West: Alcolac

FIELD TRIP SUMMARY REPORT

Page 2

C. Water supply for area. (CHECK ONE)

A data base of wells within a 3 mile radius of this site is stored in the central computer. Coordinates are:

E grid - 905-925

N grid - 505-520

1. Surface intakes (locate on attached map)
2. Municipal wells (locate on attached map)
3. Domestic wells:

a. Approximate number within $\frac{1}{4}$ mile. _____

b. Locate a minimum of 3 wells on attached map and list below:

Property owner _____

Address _____

Phone No. _____

Well records available	YES _____	NO _____	YES _____	NO _____	YES _____	NO _____
Odor problems	YES _____	NO _____	YES _____	NO _____	YES _____	NO _____
Taste problems	YES _____	NO _____	YES _____	NO _____	YES _____	NO _____

c. If odor or taste problems are reported please elaborate: _____

Fairfield area on municipal supply

D. Are surface or subsurface, (leachate), drainage areas from site apparent?
 YES _____ NO X If yes:

1. Were unusual odors or stains noted? YES _____ NO _____
2. Was stressed vegetation noted? YES _____ NO _____

a. If yes please note area on map.

E. Are streams or receiving waters adjacent to site? YES X NO _____
 If yes, list observations: (i.e.-change in benthic community, change in plant density/diversity, change in color, siltation, etc.). _____

Site of pits on shoreline (see photo) no changes noted

F. Site topography: (i.e.-plateau, strip mine ravines, etc.). _____

Coastal shoreline

G. Other observations: (i.e.-erosion, located in flood plain, etc.). _____

FIELD TRIP SUMMARY REPORT

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- V. Were photographs taken? YES X NO
If yes: Who has custody of photos?

Name: Michael Broumberg

Agency: Department of Health and Mental Hygiene, Office of Environmental Programs,
Waste Management Administration

Phone No.: 301-383-6650

- VI. Is a hydrogeological survey for this site attached? YES NO X
If no, Section III D of EPA Form T2070-2 must be completed.

- VII. Please attach pertinent copies of reports or data reviewed by inspector:
(i.e.-State monitoring data, consultant reports, etc.).

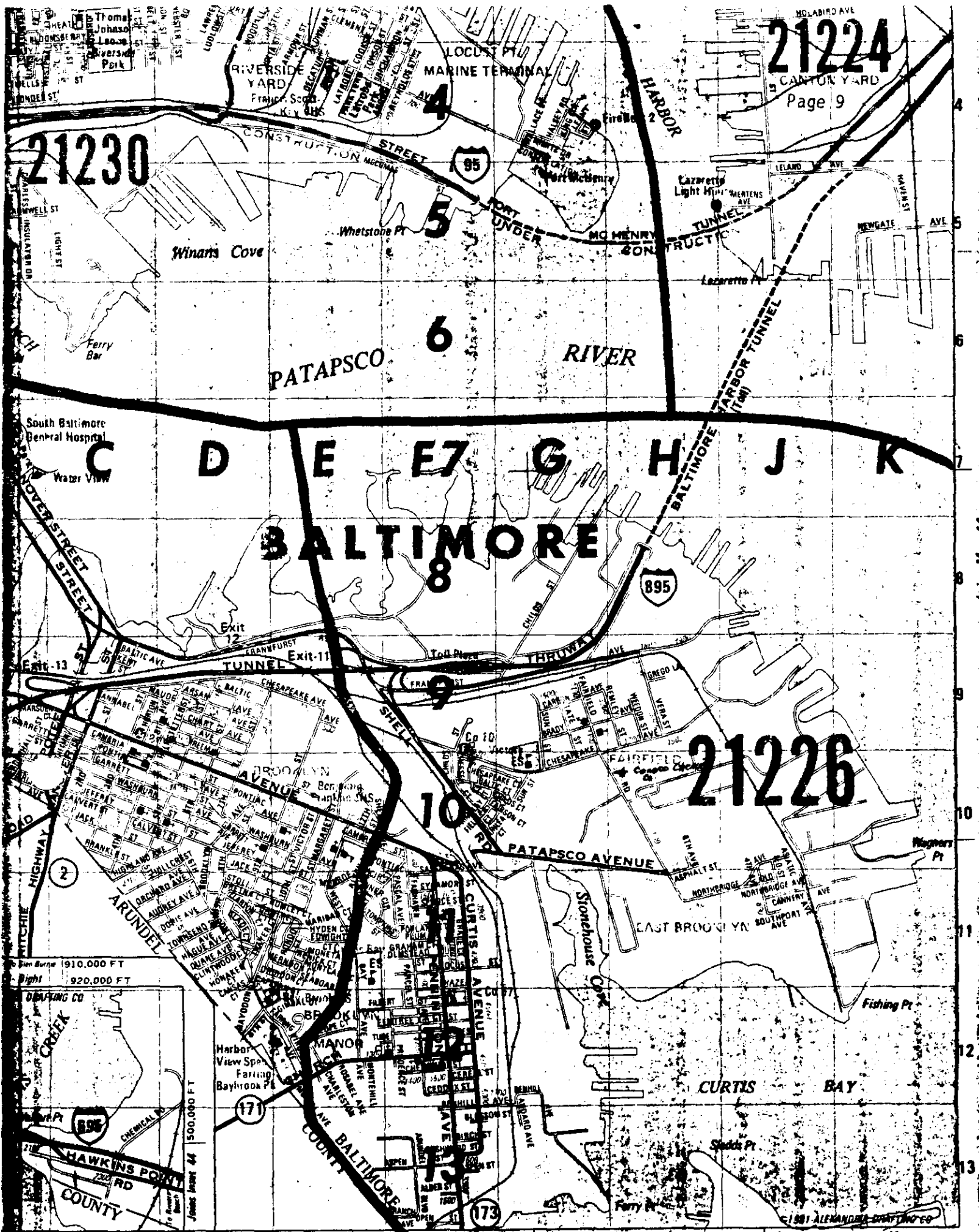
- VIII. Name of Inspector: Michael Broumberg

Agency: Department of Health and Mental Hygiene, Office of Environmental Programs,
Waste Management Administration

Phone No.: 301-383-6650

Time on Site: 9:00 AM 2/15/84

Weather Conditions: Rain 38°



Conoco Chemical Company



Panoramic view of area where "sulfone" pits were located. Photos taken 2/15/84.